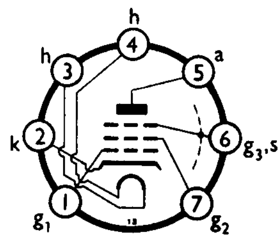
MINIATURE VARIABLE-MU R.F. PENTODE 6·3V INDIRECTLY HEATED

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : B7G
Bulb : Tubular

Overall length :	49—55	mm
Seated length :	43—49	mm.
Max. diameter :	19	mm.

RATING

V_h		6·3	V
I_h		0·2	A
V_a		250 max.	V
V_{g2}		250 max.	V
p_a		2·5 max.	W
p_{g2}		0·5 max.	W
r_a	at $V_a = V_{g2} = 200$, $V_{g1} = -2{\cdot}5$	0·5 approx.	MΩ
g_m	at $V_a = V_{g2} = 200$, $V_{g1} = -2{\cdot}5$	2·5	mA/V

CAPACITANCES

$c_{a\text{-all}}$ 7 pF $c_{g1\text{-all}}$ 4·2 pF $c_{a\text{-}g1}$ 0·006 pF

TYPICAL OPERATION

V_a	200	V
V_{g2}	200	V
V_{g3}	0	V
V_{g1}	−2·5	V
I_a	8	mA
I_{g2}	2	mA
R_k	250	Ω

The maximum D.C. resistance between control grid and cathode must not exceed 4 MΩ.

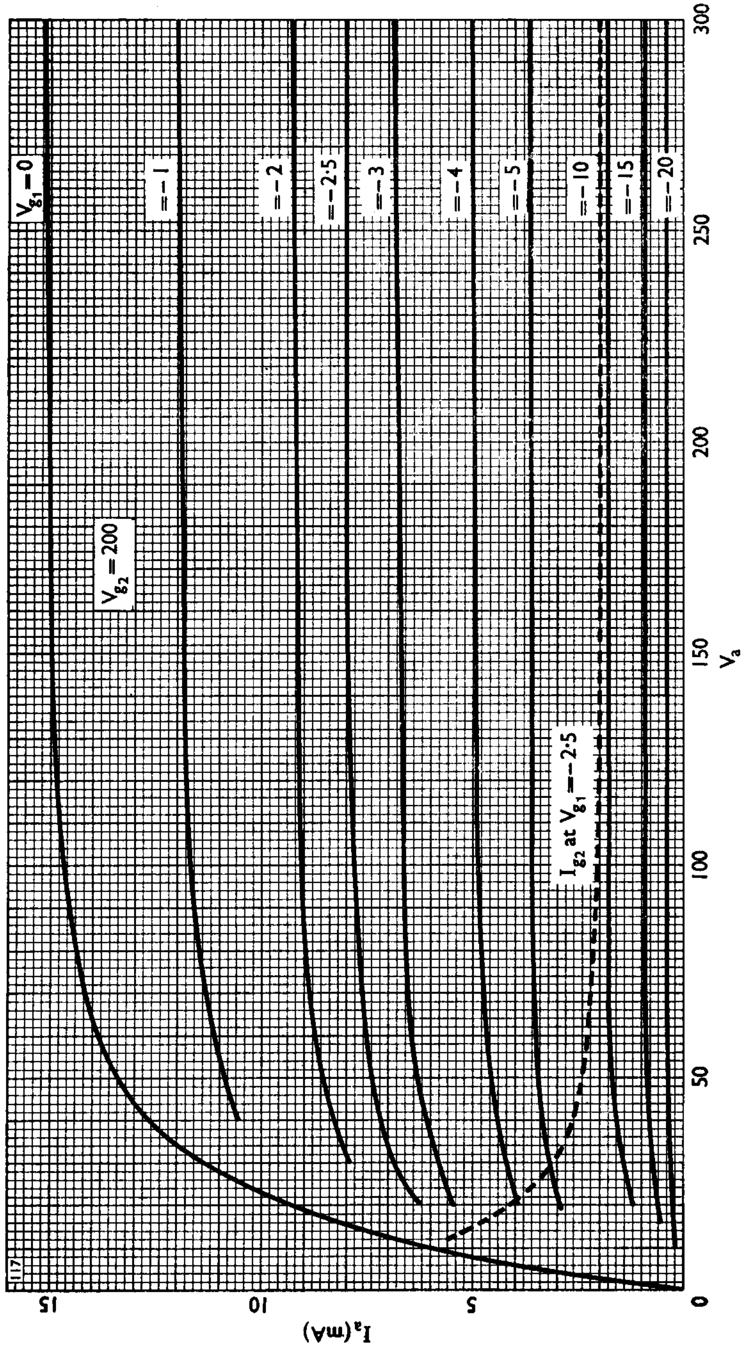
SCREENING

An internal screen is fitted, and is connected to pin 6.

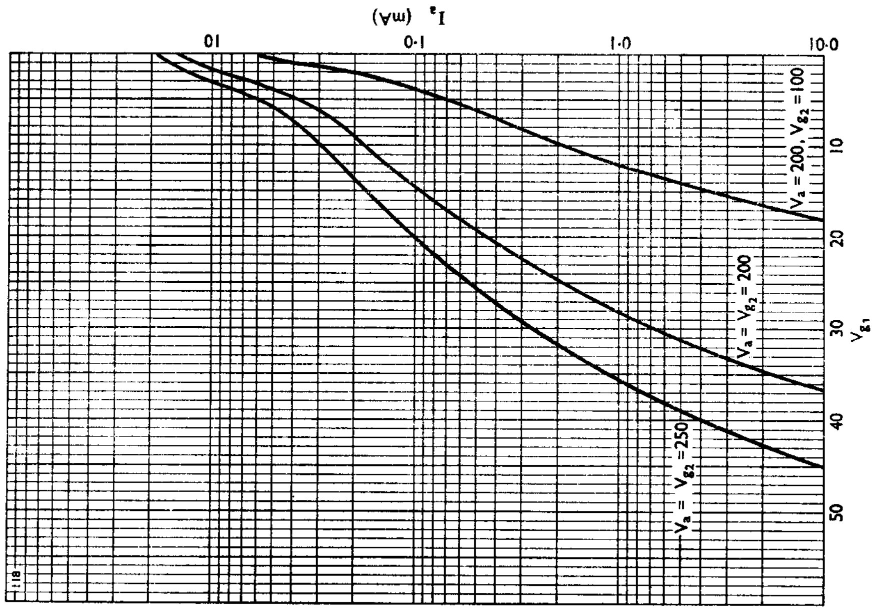
MOUNTING

Any position.

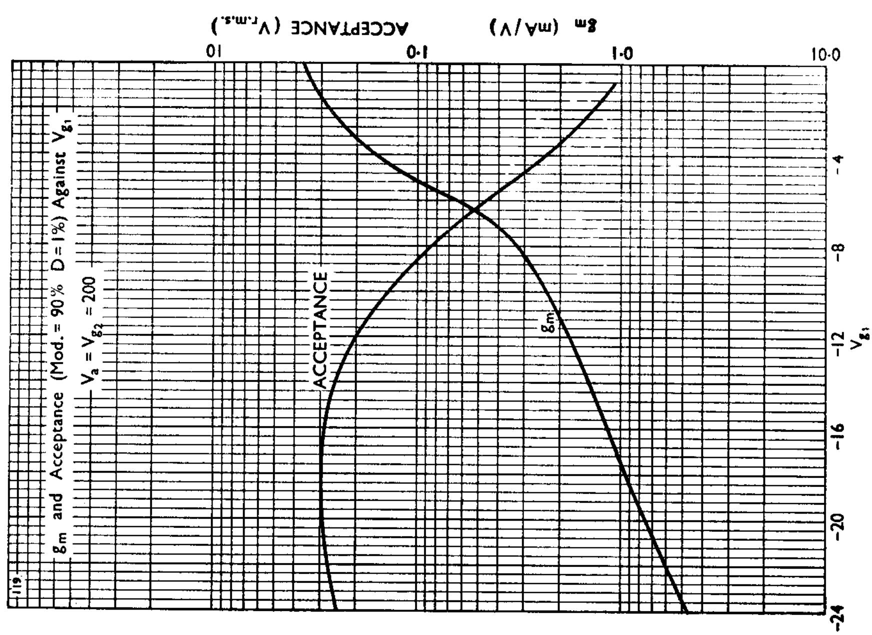
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$V_{g1}=0$
$=-1$
$=-2$
$=-2{\cdot}5$
$=-3$
$=-4$
$=-5$
$=-10$
$=-15$
$=-20$
$V_{g2}=200$
I_{g2} at $V_{g1}=-2{\cdot}5$
I_a (mA)
15
10
5
0
50
100
150
200
250
300
V_a
117



I_a (mA)
01
0·1
1·0
10·0
V_a = 200, V_g2 = 100
V_a = V_g2 = 200
V_a = V_g2 = 250
10
20
30
40
50
V_g1
118



g_m and Acceptance (Mod. = 90% D = 1%) Against V_g1
V_a = V_g2 = 200
ACCEPTANCE
g_m
g_m (mA/V)
ACCEPTANCE (V_r.m.s.)
01
0·1
1·0
10·0
-4
-8
-12
-16
-20
-24
V_g1
119

W77

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